DYNKIN, Yovgeniy Borisovich; YUSHKEVICH, A.A., red.; BRUDNO, K.F., tekhn.red.

[Foundations of the theory of Markov processes] Osnovaniia teorii markovskikh protsessov. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1959. 227 p. (KIRA 12:11) (Probabilities)

# 32515

16.6100 (2403)

s/044/61/000/011/038/049 C111/C444

AUTHOR:

Yushkevich, A. A.

TITLE:

On the differentiability of the transition probabilities of a homogeneous Markov process with denumerable number

of states

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 11, 1961, 6, abstract 11V24. (Uch. zap. MGU, 1959, vyp. 186, 141-159)

TEXT: It is proved that homogeneous Markov processes with countable number of states are strictly of the Markov kind. This property is used in order to prove that the transition probabilites  $p_{ik}(t)$  for t>0 possess finite derivatives, if one of the limits

 $\lim_{t \to 0} \frac{1 - p_{ii}(t)}{t}, \lim_{t \to 0} \frac{1 - p_{kk}(t)}{t}$ 

is finite. If both of the limits are finite, then  $p_{ik}(t)$  is absolutely continuous. An example is constructed, where  $p_{ik}(t)$  possesses an infinite second derivative.

[Abstracter's note: Complete translation.]

Gard 1/1

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DEMIDOVICH, Boris Pavlovich; MARON, Isaak Abramovich; SMOLITSKIY, Kh.L., prof., retsenzent; FROLOV, S.V., dotsent, retsenzent; SMOSTAK, R.Ya., retsenzent; SMOSTAK, R.Ya., retsenzent; SMOSTAK, R.Ya., retsenzent; BIRYUK, G.I., red.; AKHLAMOV, S.N., tekhn.red.

[Principles of computer mathematics] Osnovy vychislitel noi matematiki. Pod obahchai red. B.P.Damidovicha. Koskva. Gos.imd-vo fiziko-matem.lit-ry. 1960. 659 p. (MIRA 14:4) (Mathematics)

YUSHKEVICH, A.A. (Hosoow)

Definition of a strong Markov process. Teor. veroist. i ee prin. 5 no.2:237-243 \*60. (MIRA 13:9)

(Probabilities)

DYNKIN, Yevgeniy Borisovich; YUSHKEVICH, A.A., red.; BRUDNI, K.F., tekhn. red.

[Markov processes] Markovskie protsessy. Moskva, Pizmatgiz, 1963. 859 p. (MIRA 16:5)

KRYLOV, N.V., YUSHKEVICH, A.A. (Moscow)

Markov random sets. Teor. veroist. i ee prim. 9 no.4:738-743 164. (MIRA 17:12)

ENYLOW. F..., HARBEWICH, A.A.

Markov Sets. Trudy Mosk. mat. ob-va 13:114-135 (65. (MIRA 18:9))

MURHINA, L.M.; YUSHKEVICH, A.I.

Experience in teaching mathematics in speeded up instruction groups.

Unit. zep. Fakov.gos.co3.inst. nu.23:47-45 '64.

(MIRA 18:16)

#### YUSHKEVICH, A. P.

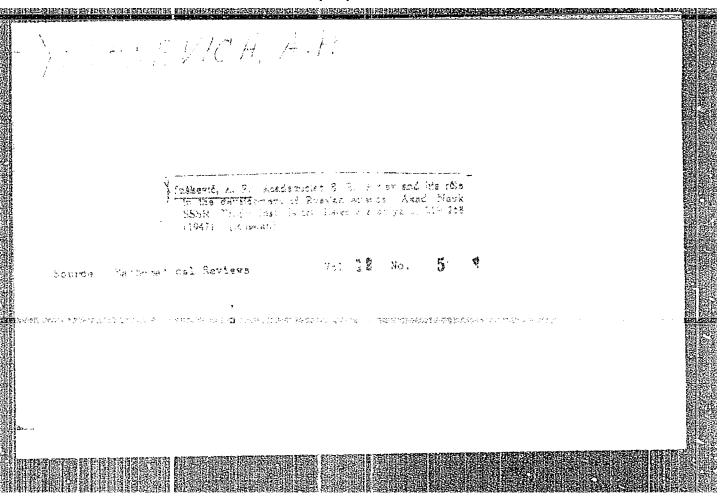
Idei obosnoraniya matematicheskogo analiza v XVIII veke. V kh. Lazar' Karno (Razmyshleniya o metafizike ischisleniya beskonechno malykh). M. - L., GTTI (1935), 11-76.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.,
Murkuchevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948

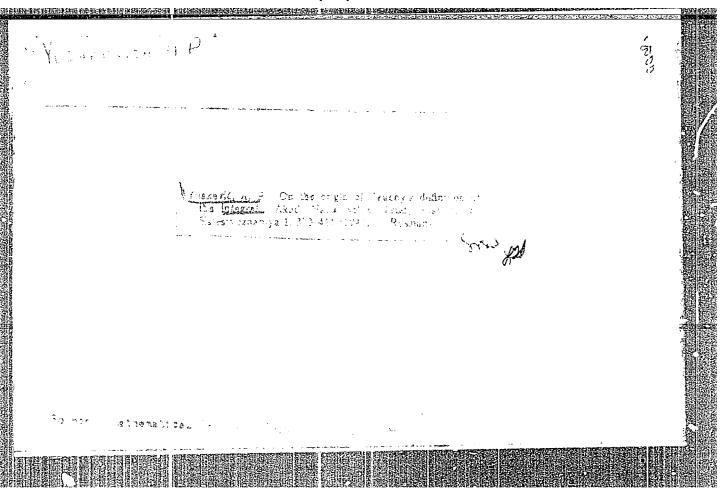
YUSHKEVICH, A. P.

Matematika i yeye prepodaveniye v rossii v XVII - XIX - vv. zh. Matem. v shkole, 1-6 (1947).

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.C.,
Markushevich, A.I.,
Rashevskiy, P.K.
Moscow-Leningrad, 1948



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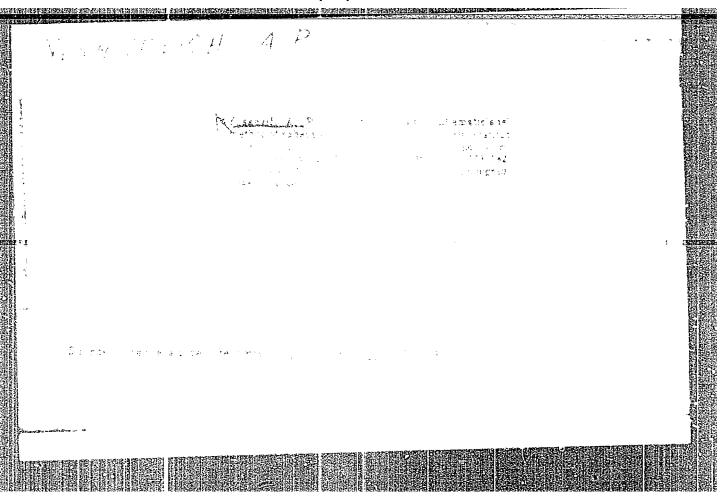


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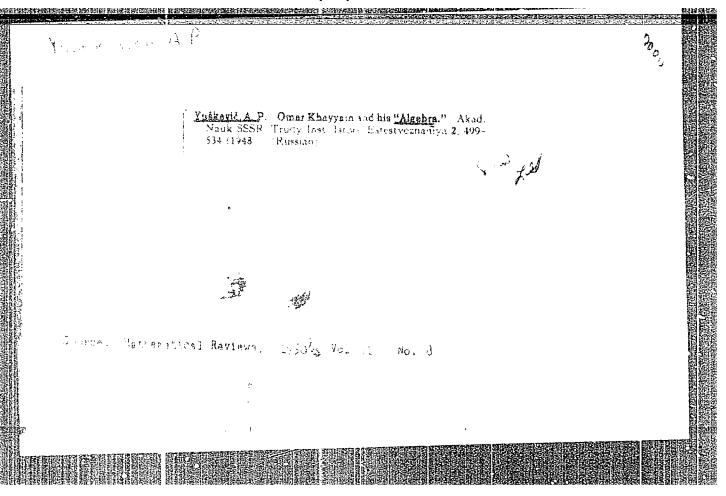
YUSKEVICH, A.P.

Tuskovich, A.P. "Mathematics in Moscow University during the first hundred years of its existence", Ist.-matem. issledovaniya, Issue 1, Moscow, 1948, p. 43-140

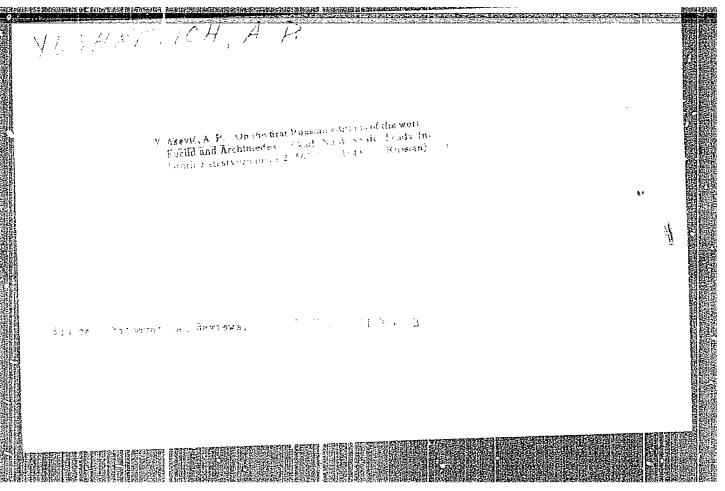
SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)



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YUSHKEVICH, A. ?.

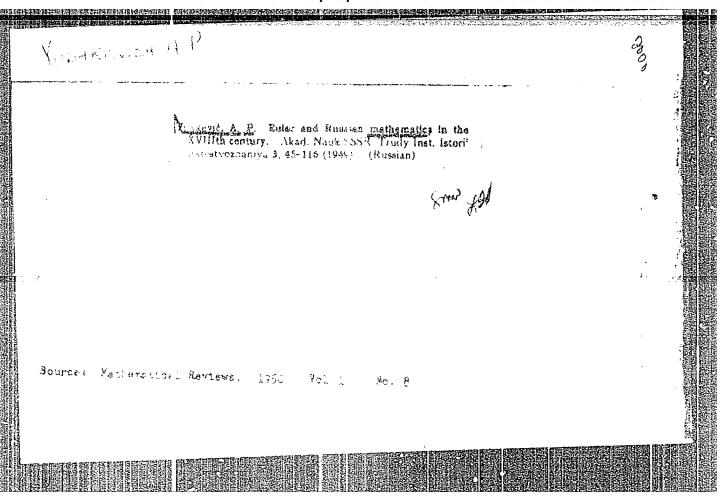
37165. YUSHKEVICH, A. P.; i BASHMAKOVA. I. G. "Algebra Ili Vychislenie Kohechnykh" No I. Lobachevskogo. V. sb: Ist-matem. Issledovaniya. Vyp, 2 M-L, 1949 s. 72-128

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SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 21, 1949).



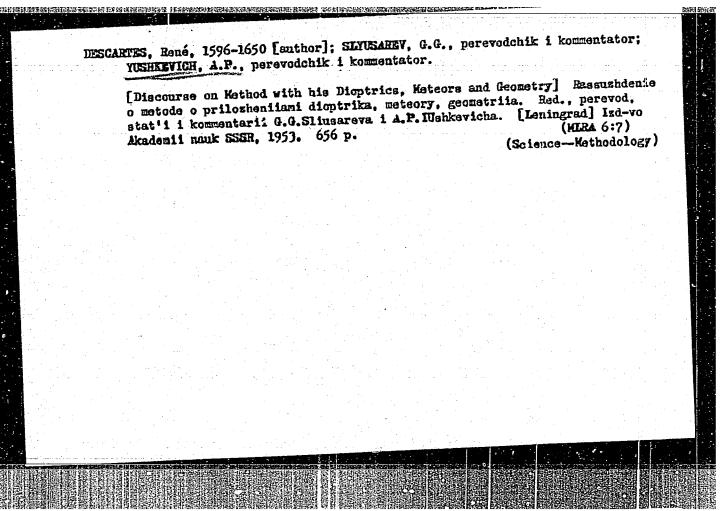
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Yushkevich, A. P. - "Certain problems of lecturing on mathematics in technical colleges",
Vestnik vyssh. shkoly, 1949, Ko. 4, p. 10-12.

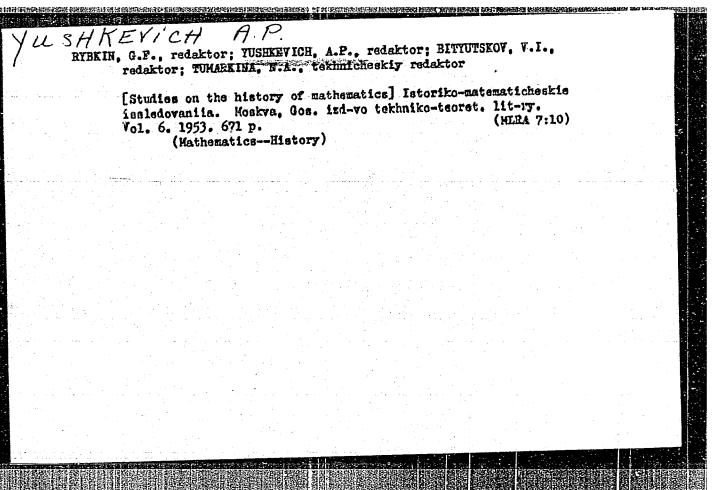
SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

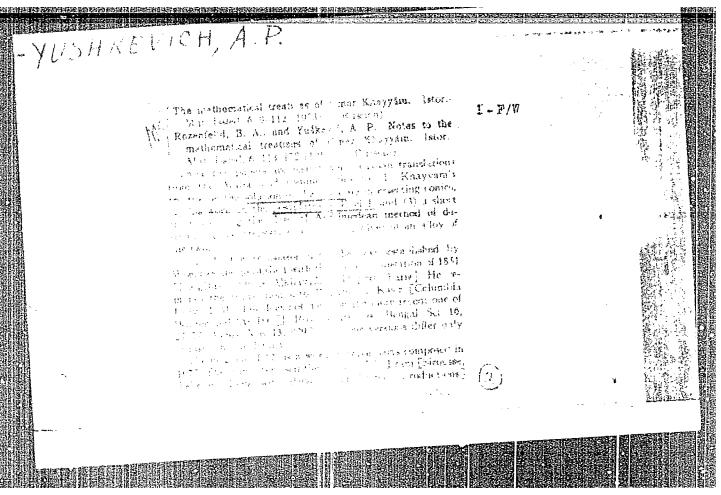
SHKEVICH, A.P. (Khar'kov); PRUDNIKOV, V.Ye. (Moscow); ROSSINSKIY, S.D. BAKHMUTSKAYA, E.Ya. (Khar'kov); PRUDNIKOV, V.Ye. (Moscow); HOSGINSKIY, S.D. (Moscow); DEPMAN, I.Ya. (Leningrad); SHOSTAK, R.Ya. (Moscow); FIRHTEN GOL'TS, G.M. (Leningrad); SPASSEIY, I.G. (Leningrad); GUSSOV, V.V. (Vladivostok); RYBKIN, G.F., redaktor; YUSHKEVICH, A.P., redaktor. [Historical studies in mathematics. Vol. 5] Istoriko-matematicheskie issledovaniia. Moskva, Gos. izd-vo tekhniko-teoreticheskoi lit-ry, 1952. (MERA 6:5) 472 p. Vol. 5. 1. Moscow. Universitet. Seminar po istorii matematiki. (Mathematics) (Osipovskii, Timofel Fedorovich, 1765-1832) (Peterson, Karl Mikhailovich, 1828-1881) (Letnikov, Aleksei Vasil'evich, 1837-1888) APPROVED FOR RELEASE: 09/19/2001

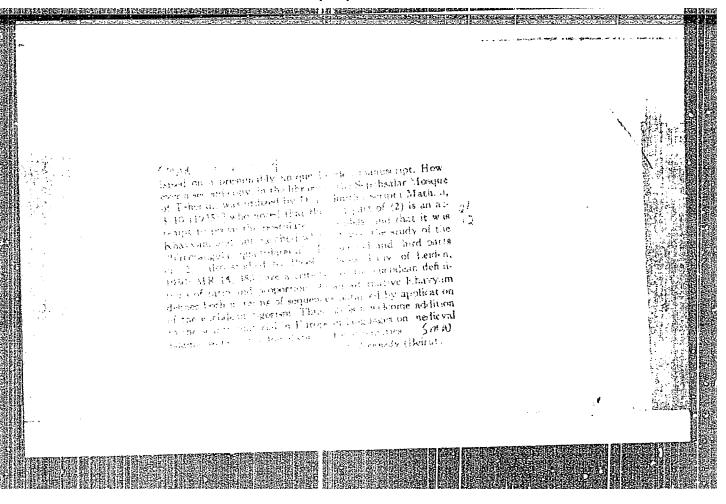
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YUSHKEVICH, A. P.

Jan/Feb 53

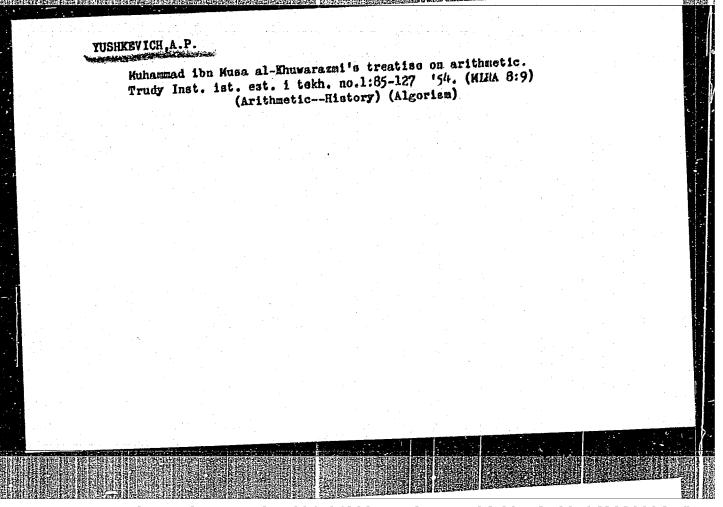
USSR/Mathematics - Societies

"Five Weekly Sessions (23 Sep - 21 Oct 52) of the Moscow Mathematical Society"

Usp Nat Nauk, Vol 8, No 1(53), pp 173-176

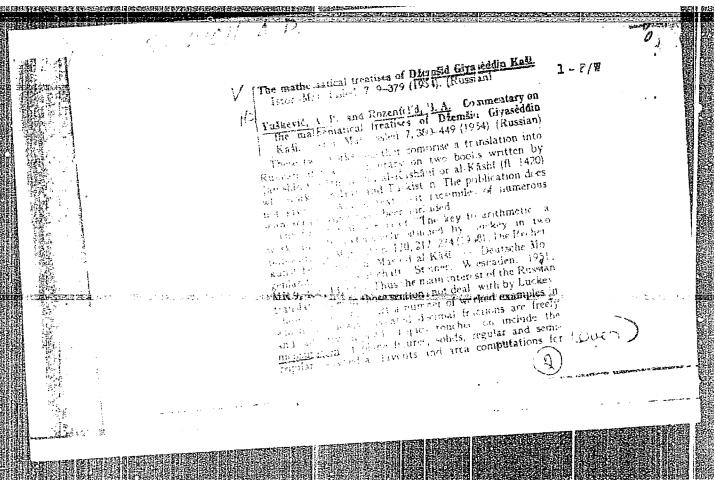
P. S. Aleksandrov, pres of the Soviety, urged members to assist in problems announced at the 19th Party Congress. The following reports were made: K. A. Sitnikov "Possibility of Capture in the Three-body Problem." S. L. Sobolev, "A Difference "Possibility of Capture in the Three-body Problem." 5. L. Sobolev, "A Difference Equation." A. N. Kolmogorov, "Spectra of Dynamic Systems on a Torus." A. V. Bitsadze, "The Mixed-type Equation ux +sgny.uy=0 of M. A. Lavrent'yev." L. N. Sretenskiy, "The Motion of the Goryachev-Chaplygin Gyroscope."I. N. Vekua, "Systems of Elliptic "The Motion of the Goryachev-Chaplygin Gyroscope."I. N. Vekua, "Systems of Elliptic Equations." V. V. Nemytskiy, "Structure of the Spectrum of Monlinear Operator Equations." V. V. Nemytskiy, "Mathematics of Central Asian Peoples in the 9-15th Equations." A. P. Yushkevich, "Mathematics of Central Asian Peoples in the 9-15th Centuries." L. S. Sretenskiy vice pres of the Society suggested felicitations for member S. S. Byushgenson his 70th birthday.

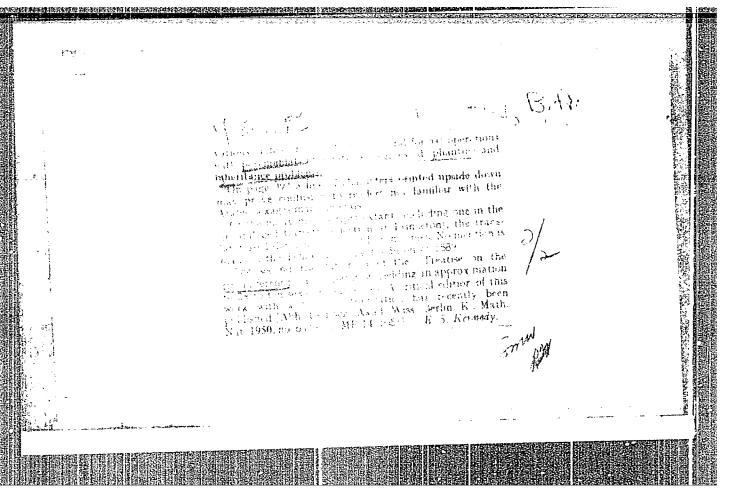
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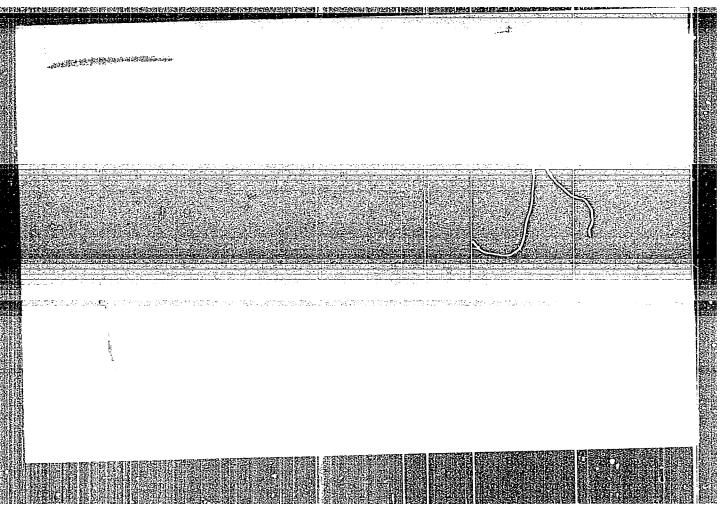




BASHMAKOVA, I.G. (Moscow); YUSHKEVICH, A.P. (Moscow)

Leonard Euler. Ist.-mat.lesl. no.7:453-512 \*54. (MLBA 8:6)

(Euler, Leonard, 1707-1783)



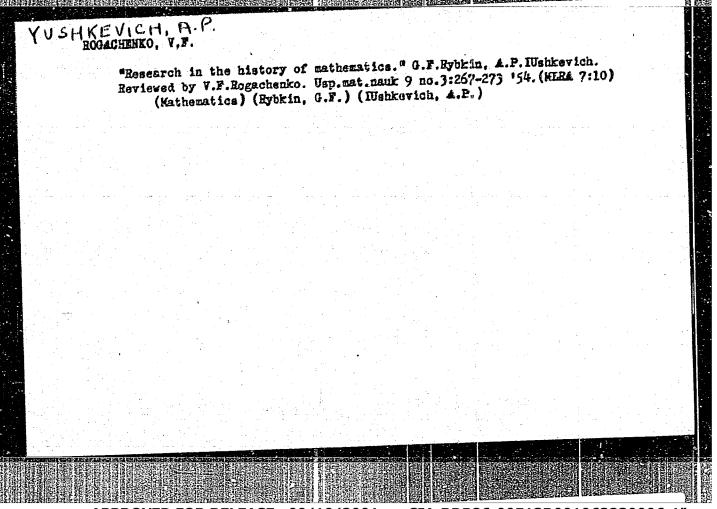
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YUSHKEVICH, A.P. (YeVicwer)

"Mikhail Vasil'evich Ostrogradskii." B.V. Gnedenko. Heviewed by
A.P. IUshkevich. Usp.mat.nauk 9 no.1:155-158 Ja-F '54.

(Ostrogradskii, Mikhail Vasil'evich, 1801-1861)

(Gnedenko, Boris Vladimirovich, 1912-)



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KUZNETSOV, I.V., redaktor; GOLUBTSOVA, V.A., redaktor; GRIGOR TAH,
A.T., redaktor; ZUBOV, V.P., redaktor; SOTIH, B.S., redaktor;
FIGUROVSKIY, N.A., redaktor; SHUKHARDIH, S.V., redaktor;
TUSKEVICH, A.P., redaktor; DDENDHRAVOVA,A.O., redaktor;
ADEXSEEVE, T.V., tekhnicheskiy redaktor.

[History of the science and technology of China; a collection of articles] Is istorii nauki i tekhniki Kitaia; abornik;
statei, Moskva, Izd-vo Akademii nauk SSSR, 1955, 181 p.
(MIAR 8:10)

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(China-Science-History) (China-Technology-History)

	Yuškević, A. P. On attainments of Chinese scholars in the field of mathematics. Iz istorii nauki i tehniki Kitaya (From the history of science and engineering in China), pp. 130-159 Izdat. Akad. Nauk SSSR. Moscow, 1985 7.73 rubles.  Rasentially the same as a paper by the author in leton. Mat. Issled. 8 (1985), 539-572; MR 17, 1.	Mark	
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ANDRONOV, I.K., prof.; VYGODSKIY, M.Ta., prof., DEFMAN, I.Ya., prof.; MOLODSHIY, V.N., dots.; TUSHKEVICH, A.P., prof.; SKIRNOVA, M.I., tekin. red. [Programs of pedagogical institutes; history of elementary mathumatics for mathematical sections of physics and mathematics faculties] Programmy pedagogicheskikh institutov; istoriia elementarnoi matematiki dlia matematicheskikh otdeleniy fiziko-matematicheskikh fakul tetov. Moskva, Gos. uchebno-pedagog, izd-vo K-va prosv. HSFSR, 1956. 12 p. R.S.F.S.R.) Glavnoye upravleniye vysshikh 1 1. Russia (1917arednikh podegogicheskikh uchebnykh zavedeniy. (Mathematics-Study and teaching)

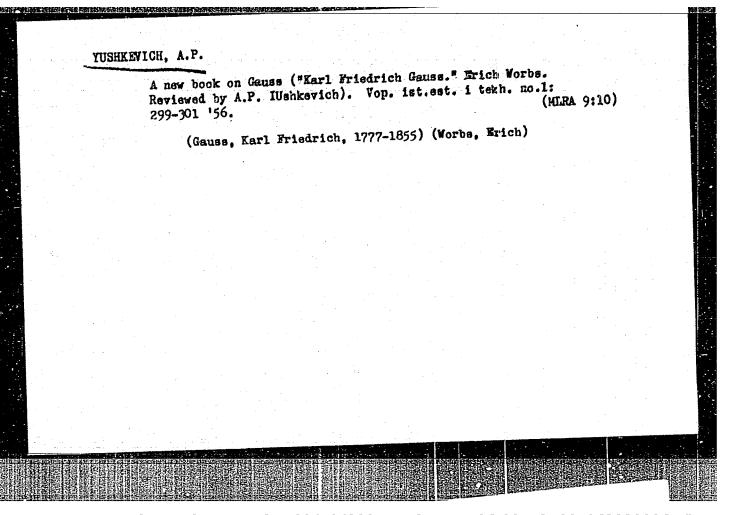
YUSHKEVICH, A.P.

Al-Kashi, Dzhemskid Giyasaeddin [Al-Kashi, Jamshid Ben Kas'ud]; HOZENFEL'D,
B.A. [translator]; SKGAL', V.S., redaktor; YUSKANIMICAL Production; RAZUMOVSKATA, A.P., redaktor; HURASHOVA, N.Is., tekhnicheskiy redaktor

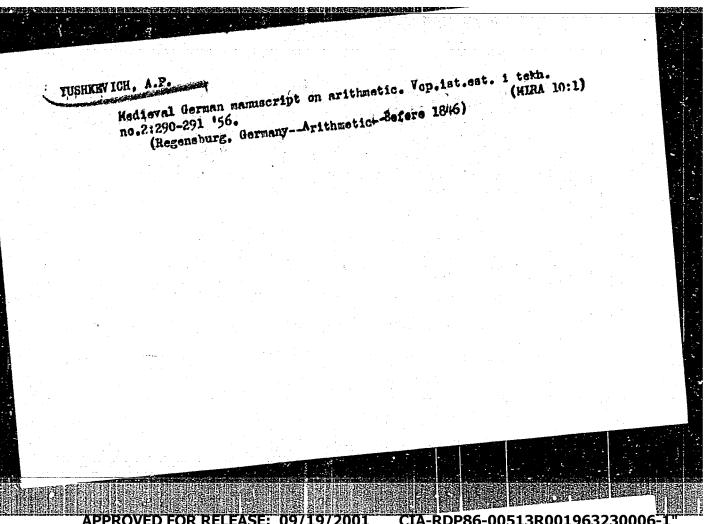
[Kay to arithmetic. Trastise on the circumference. With a supplement containing the Arabiq manuscripts of both treatises, Translated from the Arabic] Kliuch arifactiki. Traktat ob okruzhnosti. Perevod e arabskogo B.A.Rozenfel'da. Rad. V.S.Segalia i A.P.JUshkavicha.

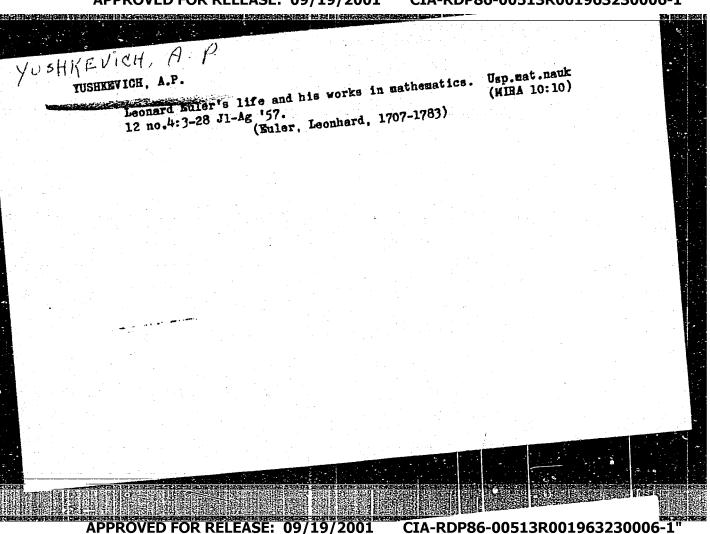
Kommentarii A.P.JUshkavicha i B.A.Rozenfel'da. S prilozhanian reproduktali arabskikh rukopisei oboikh traktatov. Koskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 566 p.

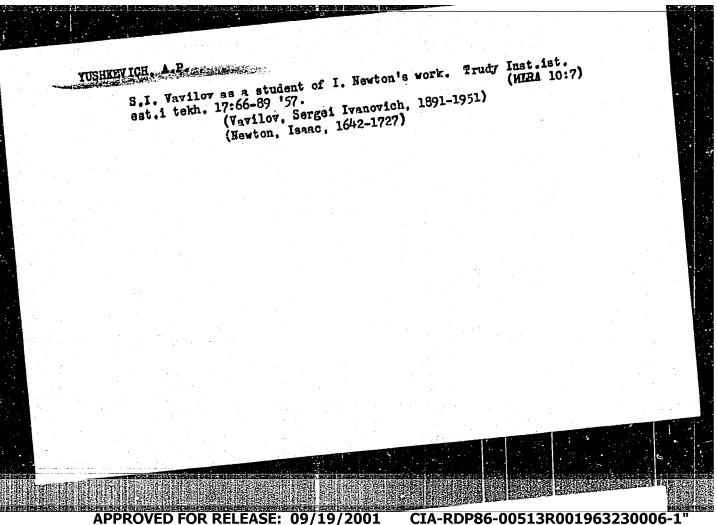
(Geometry, Plane)

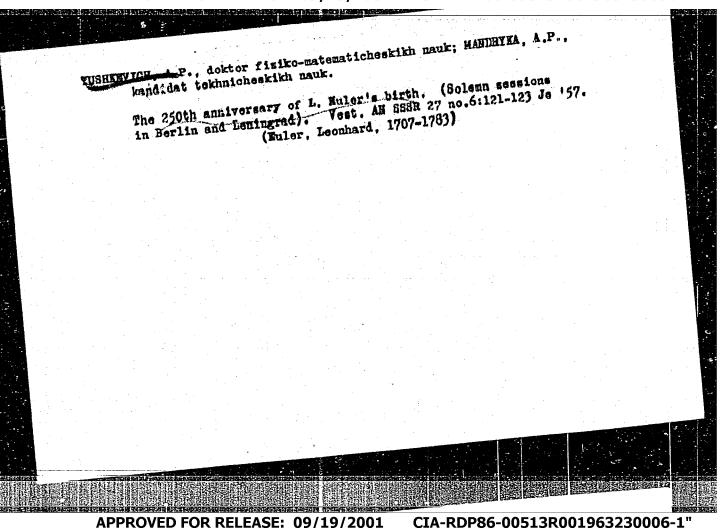


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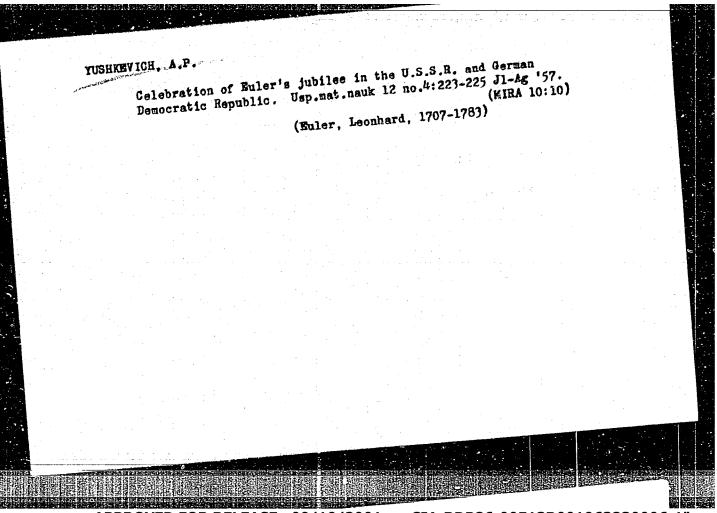




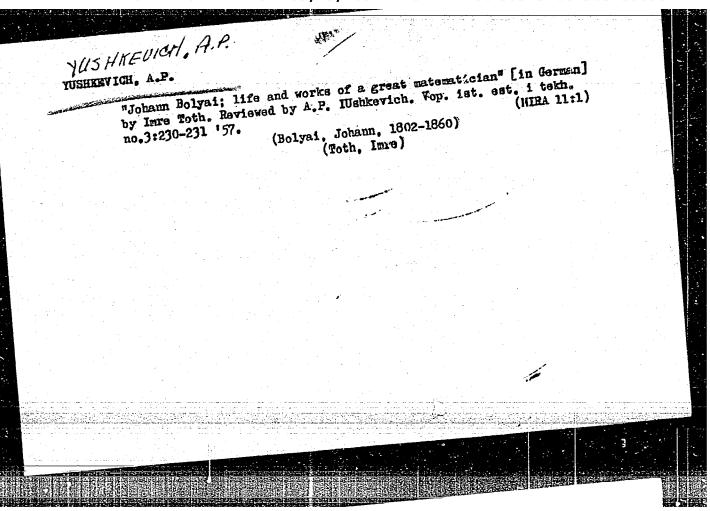




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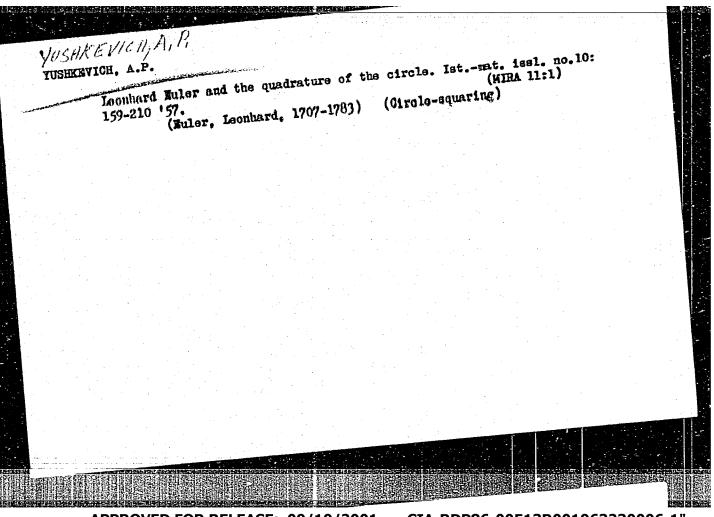
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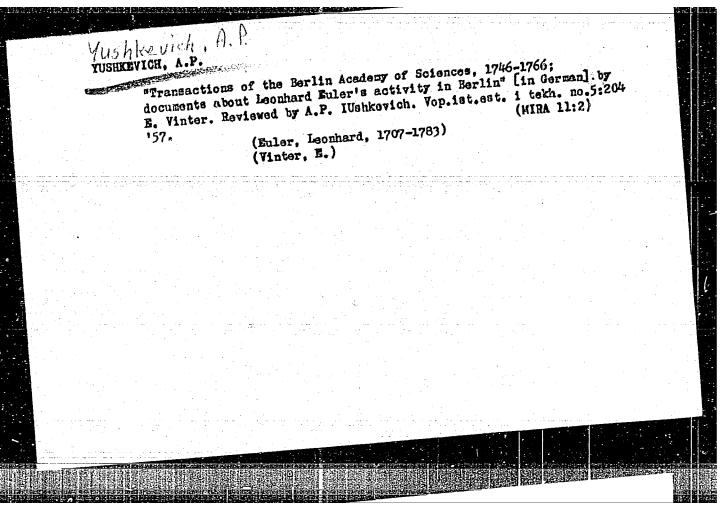
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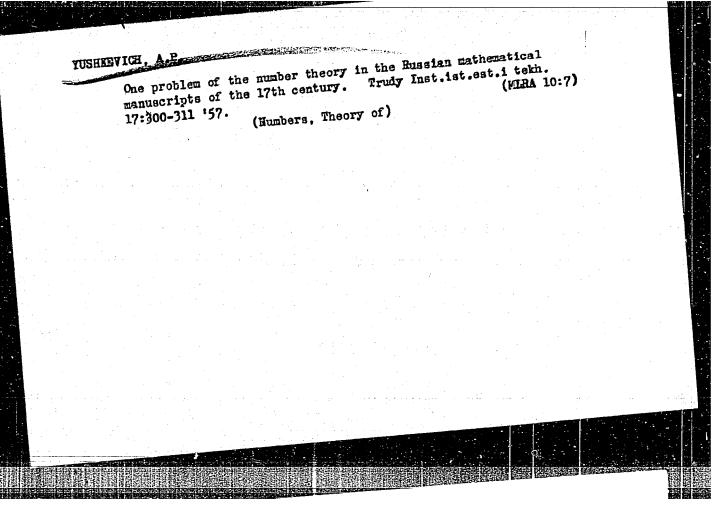
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EYLER, Leonard [Euler, Leonhard]; LAVRENT'YEV, H.A., red.; YUSHKEVICH,

A.P., red.; GRIGOR'YAH, A.T., red.; GESSEH, L.V., red.izd-ve;

POLEHOVA, T.P., tekhn.red.

[Leonhard Euler; a collection of articles presented to the Academy of Sciences of the U.S.S.R. in honor of the 250th anniversary of his birth] Leonard Eiler; sbornik states v chest 250-letin so his birth] Leonard Eiler; sbornik states v chest 250-l

1. Predsedatel' Eylerovskogo yubileynogo komiteta Akademii nauk SSSR (for Lavrent'yev). (Euler, Leonhard, 1707-1783)

YUSHKEVICH, A.P.

PHASE I BOOK EXPLOITATION

sov/1366

Istoriko -matematicheskiye issledovaniya, vyp. 11 (Research in thematical History, Nr 11) Moscow, Fizmatgiz, 1958. 792 p. 5,000 copies printed.

Eds. (Title page): Rybkin, G.F. and Yushkevich, A.P.; Ed. (Inside book): Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.

PURPOSE: This book is intended for mathematicians and others interested in the history of mathematics, and may serve as the basis for a suitable university text on the history of mathematics, thereby filling the most serious gap in Soviet mathematical

COVERAGE: This book contains reports made by members of the section on the history of mathematics at the Third All-Union Mathematical Congress which discussed problems of the history of mathematics and various articles on the significance of the history of mathematics

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Research in Mathematical History (Cont.)

SOV/1366

for mathematics itself and for the other sciences. There are also four articles on the history of mathematics in Czechoslovakia and Rumania, an article on the investigation of the algebraic roots of differential calculus in connection with a study of the mathematical writings of K. Marx, and an article on the work done on negative numbers by the Arabian mathematician, Abu-1-Wafa. A series of articles on various texts and documents connected with the history of mathematics, including a translation of the treatise De Configuratione Qualitatum by N. Oresme and two articles concerning it, concludes the book.

Card 2/8

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1 History (Cont.)	•
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Rrom the History of Axiomatics	63
Problems on the Foundations of N.I. Lobachevskiy	97
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Research in Mathematical History (Cont.)  Kiro, S.N. (Odessa). Mathematics at the Congresses of Russian Naturalists and Physicians  Kol'man, E. (Moscow). On Certain Unsolved Problems in the History of Ancient Mathematics  Raik, A. Ye. (Saransk). New Reconstructions of Certain Problems from Ancient Egyptian and Babylonian Texts Problems from Ancient Egyptian and Babylonian Texts  IECTURES ON THE HISTORY OF MATHEMATICS  Program on the History of Mathematics at the Moscow State University  Yanovakaya, S.A. (Moscow). Introductory Lecture to the Odurse The History of Mathematics  Card 4/8	ATTROVED FOR RELEASE, 03/13/2001 CIA RDI 60 00313R00.	1905250000 1
Research in Mathematical History (Contest)  Kiro, S.N. (Odessa). Mathematics at the Congresses of Russian Naturalists and Physicians Russian Naturalists and Physicians  Kol'man, E. (Moscow). On Certain Unsolved Problems in the History of Ancient Mathematics  History of Ancient Mathematics  Raik, A. Ye. (Saransk). New Reconstructions of Certain Problems from Ancient Egyptian and Babylonian Texts  LECTURES ON THE HISTORY OF MATHEMATICS  LECTURES ON THE HISTORY OF MATHEMATICS  Program on the History of Mathematics at the Moscow  State University  Yanovakaya, S.A. (Moscow). Introductory Lecture to the Course The History of Mathematics		
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KUKARKIN, Boris Vasil'yevich, prof.; RYBNIKOV, Konstantin Alekseyevich, prof.; BASHMAKOVA, Isabella Grigor'yevna; YUSHKSVICH, Adol'f Pavlovich; YANOVEKAYA, Gof'ye Aleksandrovna; SPASSKIV, Boris Ivanovich, dotsent; MIKHAYLOV, Glab Konstantinevich, starshiy nauchnyy sotrudnik; MATYNOV, D. Ta., prof., otv.red.; GORDHYEV, D.I., prof., red.; IVANENKO, D.D., prof., red.; KUDRYAVISEV, P.S., prof., red.; KULIKOVSKIY, P.G., dotsent, red.; KHRGIAN, A.Kh., prof., red.; SHEVISOV, N.S., prof., red.; VERKHUNOV, V.M., assistent, red.; KONONKOV, A.F., red.; YERMAKOV, M.S., tekhn.red.

[Programs of courses on the history of the physicomathematical sciences] Programmy po istorii fiziko-matematicheskikh nauk.
(MIRA 12:12)
Moskva, 1959. 40 p.

1. Moscow. Universitet. 2. Orgkomitet Vsesoyuzncy mezhvuzovskoy konferentsii po istorii fiziko-matematicheskikh nauk (for Kukarkin, Rybnikov. Spasskiy. Gordeyev. Ivanenko. Kudryavtsev. Kulikovskiy. Kikhaylov. Khrgian. Shevtsov. Verkhunov. Kononkov).

(Physics--Study and teaching)

(Mothematics--Study and teaching)

TTT NOT WITH TOTAL SOLVER	1) Obzornyre stat'1 1917-1957) Vol 1: 1002 p. 5,500 copies	Auroah, (Chief Ed.), V. I. Bityutakov, V. G. Ediyanaky, Vynth, G. Ye. Shilows, and A. P. Yushkevich; Ed. (Inside A. P. Lapro; Tech. Ed.: 3. N. Akhlamov.	this book is intended for mathematicians and historians seatics interested in Sowiet contributions to the field.	CUTERALE: This book is Volume I of a major 2-volume work on the history of Sovies mathematics. Wolume I surveys the chief control of the period 1947-tributions and by Soviet mathematicians during the period 1947-1957; Volume II will contain a bibliography of major works since 1957; Volume II will contain a bibliography of major works after 1917 and biographic sweathes of Some of the leading mathematical manual works will contain the fraction set by two carlier works in the work 2530 za pranadisatile of Mainematics in	is the divided gebra, topology, to, and con-	oo soriet sathematicing is intruced with the	đ	2013 A. R. Programming 1997	Chetretick, J. v. Descriptive Geometry and its generali- 993 Englands Fundamental Thrones of anonesery and its generali- 993	imensional descriptive geometry Fositional tric method of studying images. Fositional	V. 3. P.	generalization generalization nn apaces and s y of nets ed connections ex apaces	Theory of geometric objects  on A W	1. Geometry out a control of convex authors 930 3. Single willed actualingtion of convex 932 3. Meglashiy of correct sortices sith regular metric 933 4. General theory of surfaces metherity of surfaces	Existence, unliverses, and less of curva, under given conditions of Gaussian curva, Gertain militaria, brunding wiles problem and infer of Morfaces Eiven a function	sorems on local deformations in general	Cartain version	tics of the ancient Ba	dern matherenticians a history of various disciplines and cours of a general nature	Author's Index	

OSTROGRADSKIY, Mikhail Vasil\*yevich [deceased]; SHTOKALO, I.Z., akademik, otv.
red.; BOGOLYUBOV, N.N., akademik, otv.red.toma; GHKDENKO, B.V., akademik,
red.; ISHLINSKIY, A.Tw., akademik, red.; RKKEZ, Ye.Ya., red.; SAVIN, G.N.,
akademik, red.; SOKOLOV, Yu.D., red.; SHIRNOV, V.I., akademik, red.;
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TUSHEWIGH, A.P., prof., red.; POCHENTSKIY, I.B., dotaent, red.;
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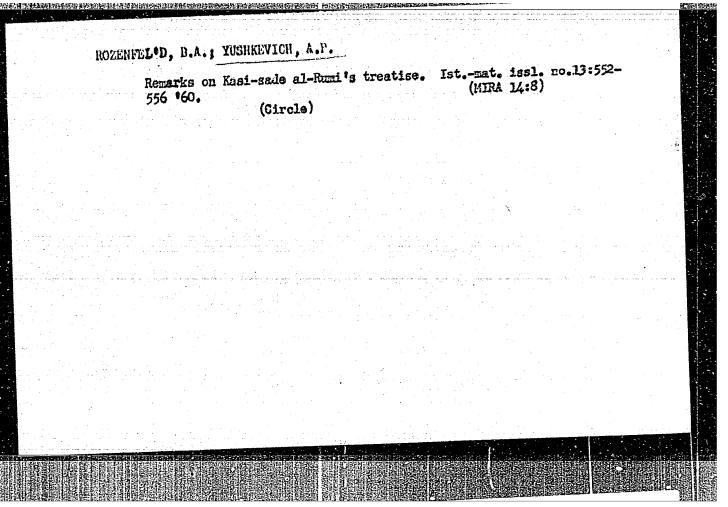
Mathematics in Oriental countries during the Middle Ages. Iz ist.

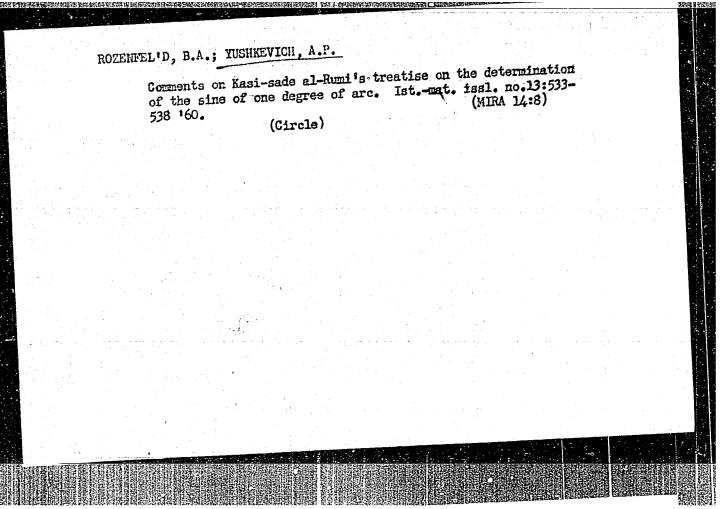
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YUSHKEVICH, A.P.; VINTER, E.

Leonhard Euler's correspondence with the Academy of Sciences in St.

Petersburg from 1741 to 1757. Trudy Inst. ist. est. 1 tekt. 34:428(MIRA 14:2)

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KOL'MAN, E.; YUSHKEVICH, Adol's Pavlovich; ROZENFEL'D, B.A., otv.
red.; UGAROVA, N.A., red.; FOLOVINKIN, S.M., red.;
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[Nathematics before the Renaissance] Matematika do spokhi Vozrozhdenila. Moskva, Gos. izd-vo fiziko-matem. lit-ry.
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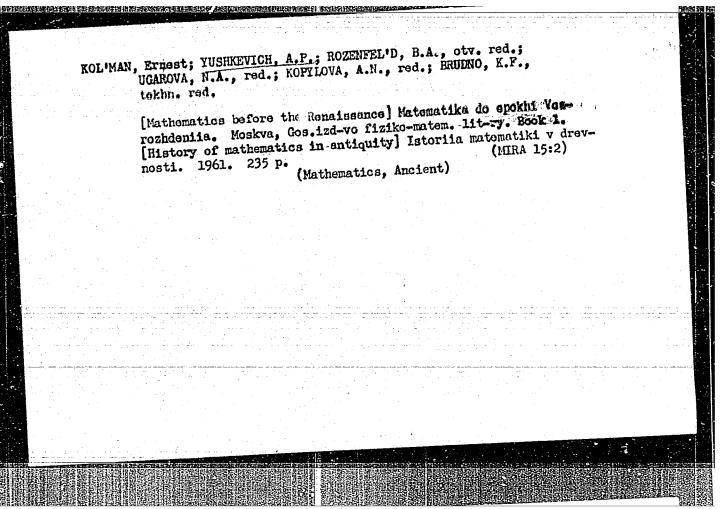
(Mathematics)

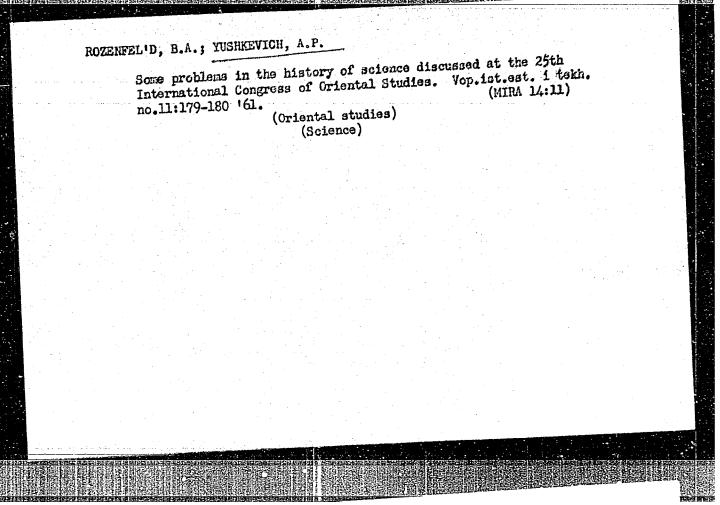
(Ostrogradskii, Mikhail Vasil'evich, 1801-1861)

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REMEZ, Ye.Ya., red.; SMIRNOV, V.I., red.; SOKOLOV, Yu.D., red.;
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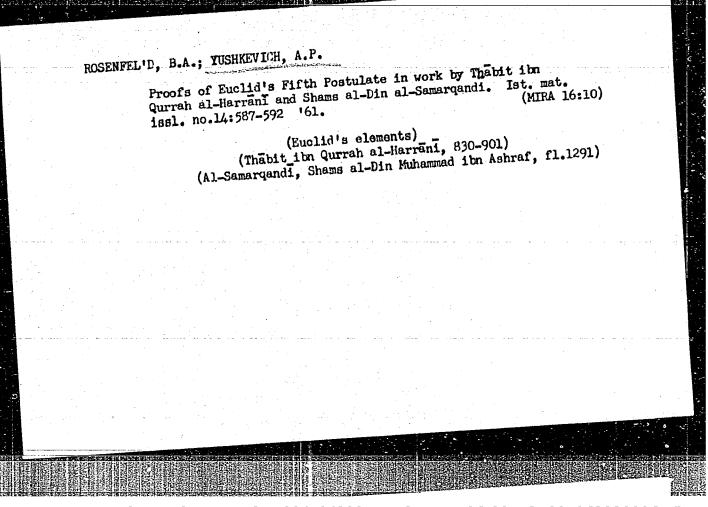
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Vasil'evich Ostrogradskii (1.1.1862 - 1.1.1962) [Mikhail Vasil'evich
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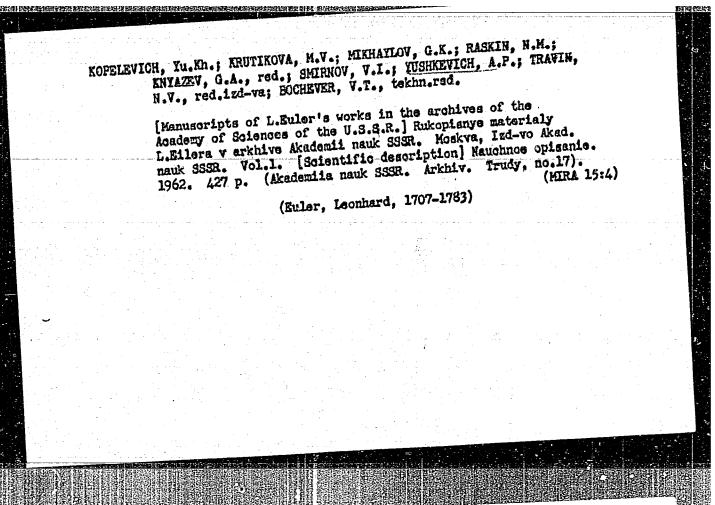




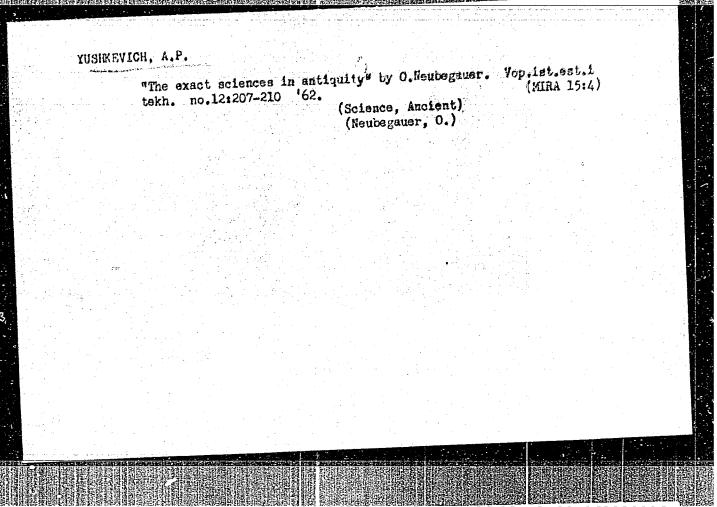
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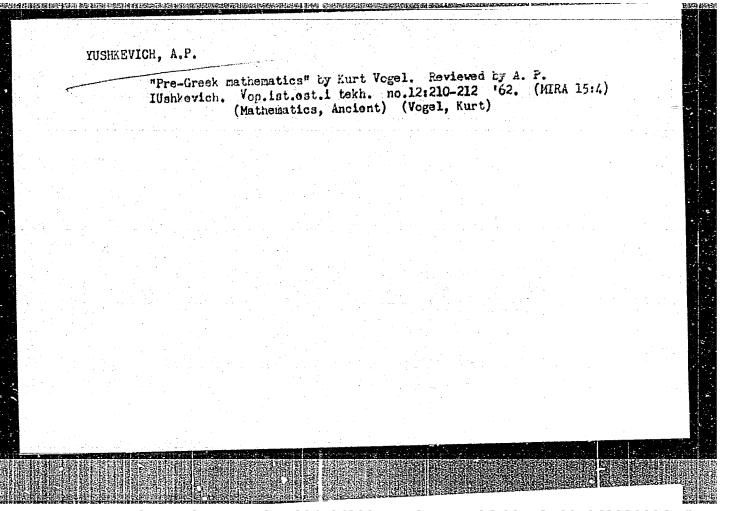
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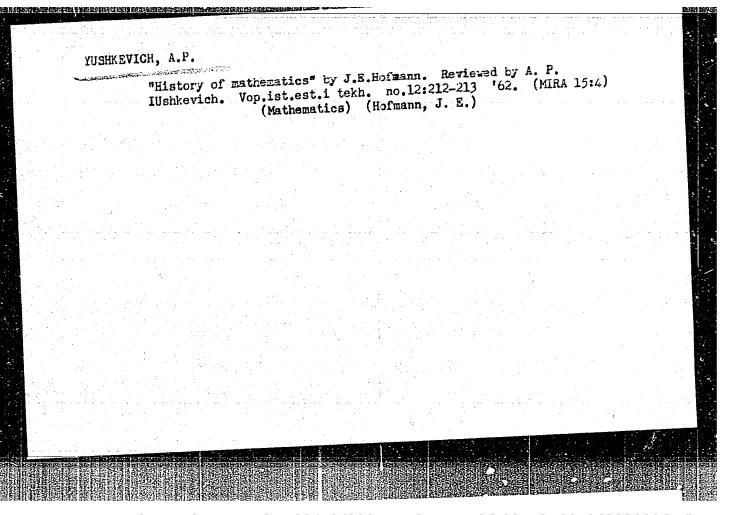
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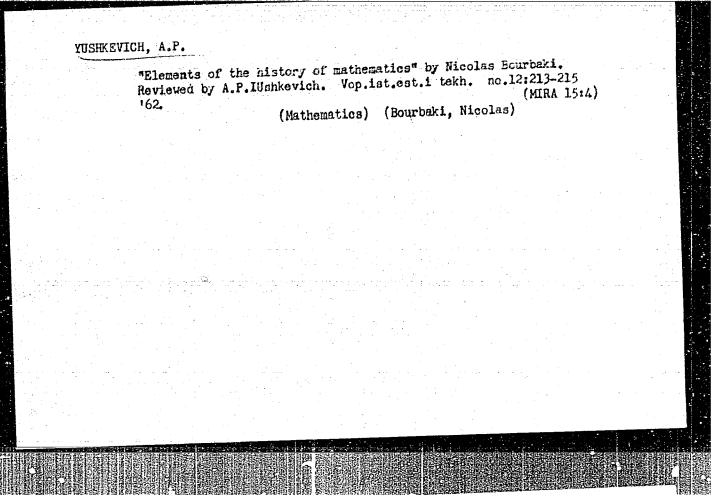
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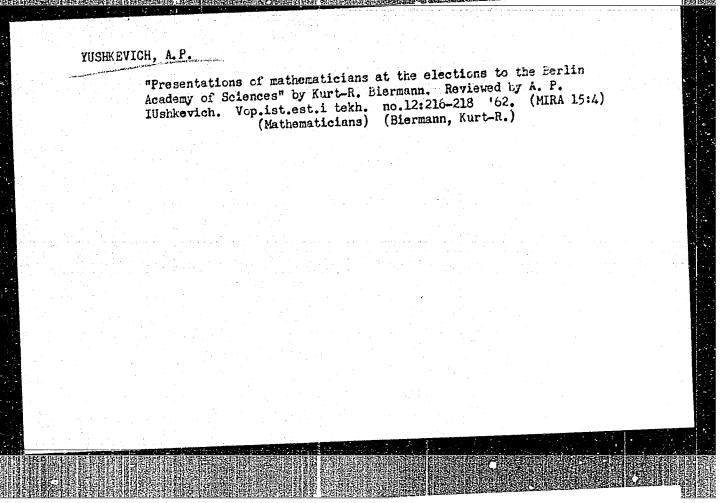


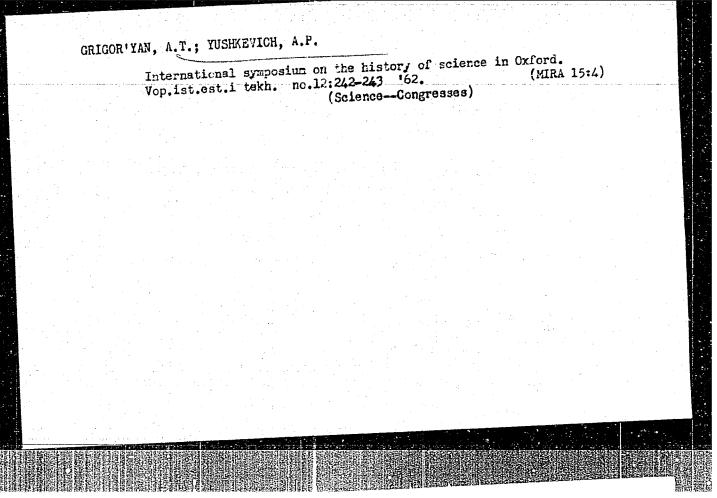
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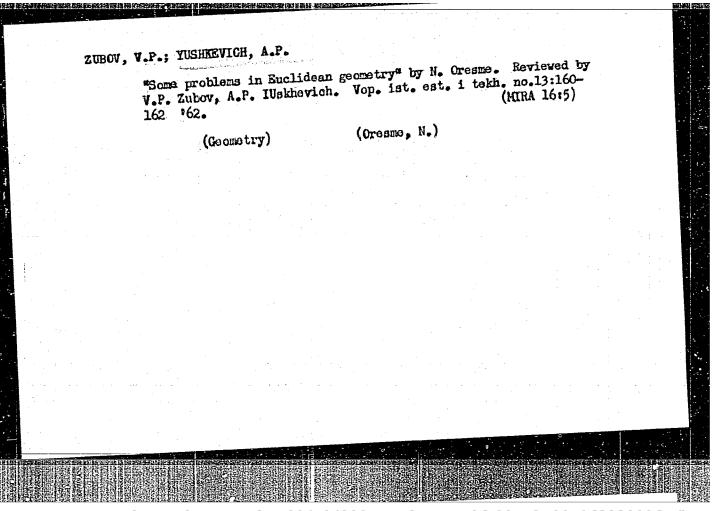


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GRIGOR'YAN, A.T., doktor fiz.-matem.nauk; YUSHKEVICH, A.P., doktor fiz.-matem. nauk; POGREBYSSKIY, I.V., doktor fiz.-matem.nauk

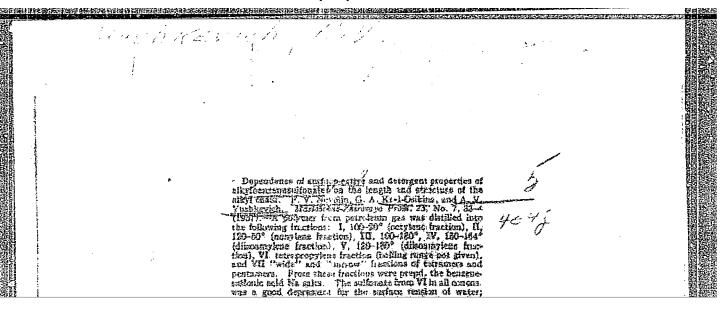
At the international congress of the historians of science in Warsaw. Vest. AN SSSR 35 no.12:67-71 D '65. (MIRA 19:1)

NEVOLIN, F.V., kandidat tekhnicheskikh nauk; MAKHINYA, V.M.; TUSHKEVICH, A.V.

Characteristics of solutions of alkyl benzensulfonates and soap
mixtures. Masl.-zhir.prom.23 no.1:27-30 '57. (MIRA 10:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.

(Vashing powders) (Sulfonates) (Soap)



PETROV. A.D., HIKISHINA, G.I., kand. khim. nauk, MEVOLIN, F.V., kand. tekhn. nauk, KRAL'-OSIKINA, G.A., OREKHOVA, H.V., YUSHKEVICH, A.V.

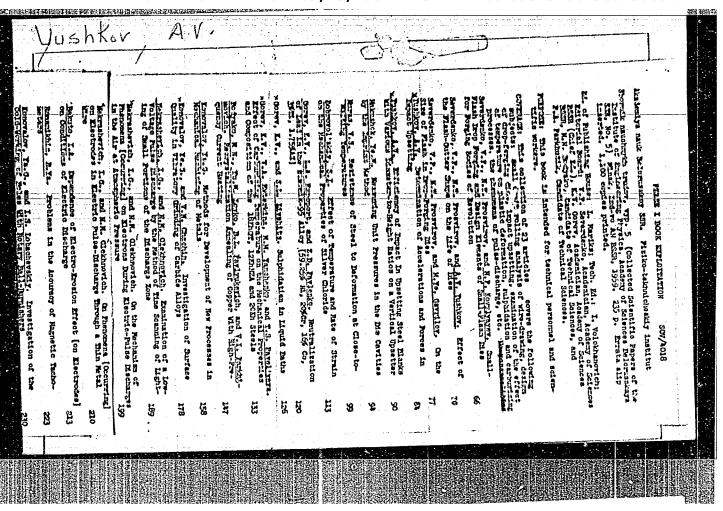
Bffect of the size and structure of the slkyl chain of alkyl derivatives of benzenesulfonic acid on their surface active and detergent properties. Masl.-zhir. prom. 24 no. 8:23-29 158.

(MIRA 11:8)

1. Chlen-korrespondent AN SSSR (for Petrov). 2. AN SSSR (for Petrov, Hikishina). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut shirov (for Nevolin, Eral'-Osokina, Orekhova, Yushkevich).

(Benzenesulfonic acid)

(Surface active agents)



NEVOLIN, F.V., kand.tekhn.nauk; TIPISOVA, T.G.; YUSHKEVICH, A.V.

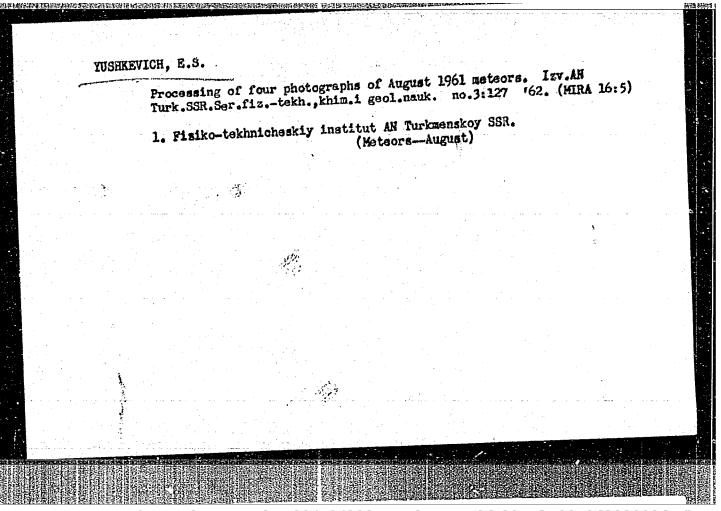
Bifect of the composition of cleaning compounds on the quality of washed laundry. Masl.-shir.prom. 25 no.9:29-30 '59.

(KIEA 12:12)

1. Vaesoyusnyy nauchno-issledovatel'skiy institut shirov.

(Cleaning compounds--Testing)

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8/0203/64/004/005/0965/0968

ACCESSION NR: AP4046297

AUTHOR: Gul'medov, Kh., Yushkevich, E.S.

TITLE: Structure and diffusion of meteor trails from photographic observations

SOURCE: Geomagnetism I aeronomiya, v. 4, no. 5, 1984, 865-968

TOPIC TAGS: meteor, meteor trail, meteor trail diffusion, atmospheric turbulence, meteor trail structure

ABSTRACT: This paper presents the results of photometric measurements of the black-ening density of successive photographs of stable meteor trails, observed on 21 October 1961 Astronomicheskaya observatoriya im. V.P. Engelgardta (V.P. Engel'gardt Astronomical Observatory) at Kazan'. Two trails were investigated. Partial results were nomical Observatory) at Kazan'. Two trails were investigated. Partial results were previously published by the author (Geomagnetizm i aeronomiya, 1963, 3, No. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, 1963, 3, No. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author (Geomagnetizm i aeronomiya, no. 2, 309; previously published by the author

# ACCESSION NR: AP4046297

trail in the second exposure was patchy, consisting of individual condensations. largest condensations were formed at the beginning and end of the trail. The structure of the trail changed by the third exposure: the condensations in the middle part of the trail merged, only the large condensations at the beginning and end of the trail remaining. There was also a shifting of isophots from exposure to exposure. Figures 1 and 2 of the Enclosure show that with increasing height there is a change in both velocity and the coefficient of diffusion of the trails. These values correlate well with the variation in velocity of drift of the trails. There is an interrelationship between the structure of the trails and their rates of diffusion and drift; this can be attributed to the influence of atmospheric turbulence on the formation and development of trails. It is also shown that attenuation of the trail occurs not only as a result of diffusion, but also due to other phenomena which considerably accelerate this process. Brightness of the trail is also variable with height, as shown by Fig. 3 of the Enclosure. Orig. art. has: 3 formulas, 4 figures and 1 table.

ASSOCIATION: Otdel geofiziki i seysmologii, AN Turkmenskoy SSR (Division of Geophysics and Seismology, Academy of Sciences of the Turkmen SSR) SUB CODE: AA

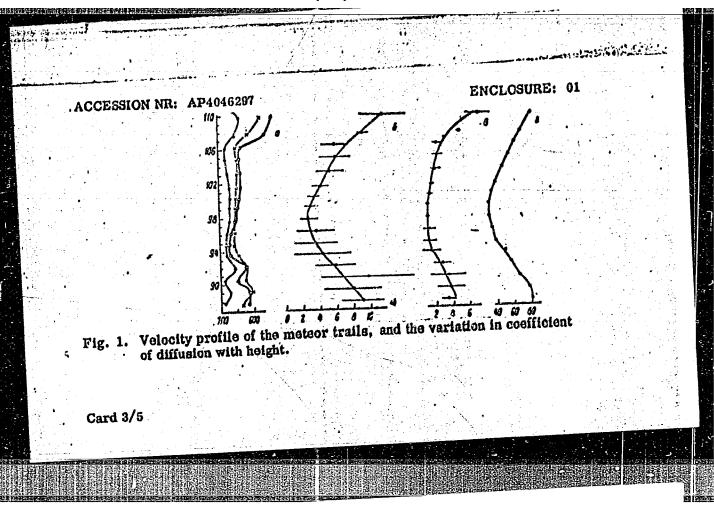
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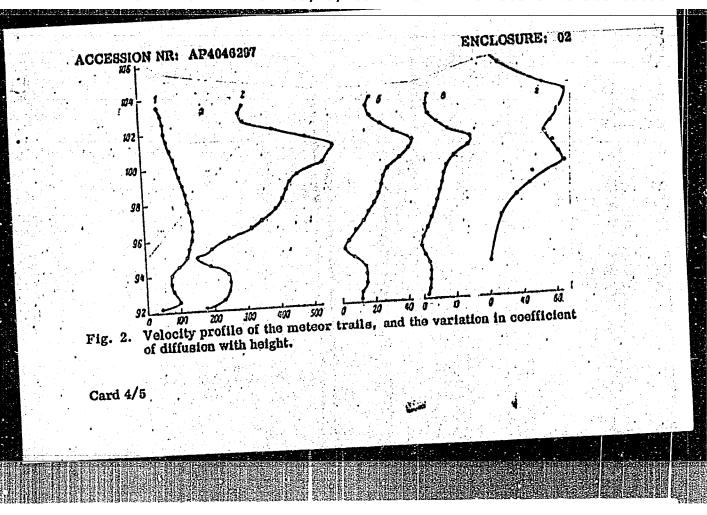
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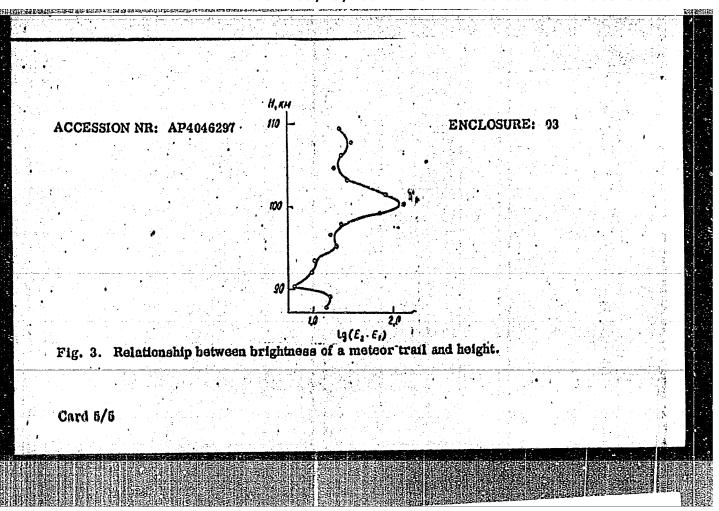
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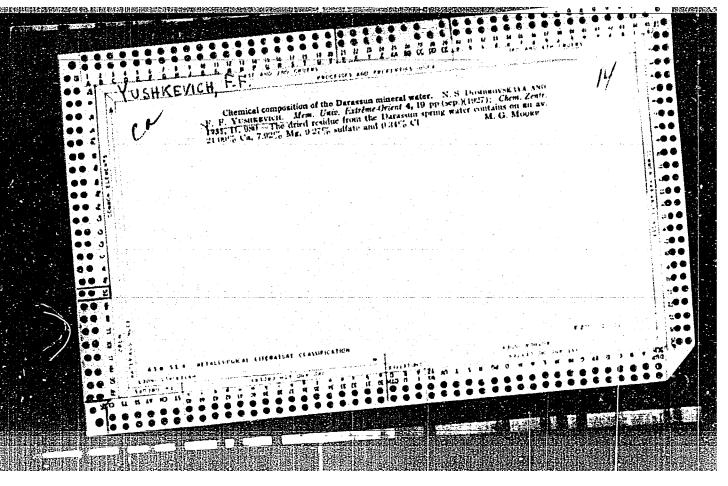
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GUL'MEDOVA, A.A.; SIMONENKO, A.N.; YUSHKEVICH, E.S.

Results of photographic observations of meteors. Izv. AN Turk.
SSR. Ser. fiz.-tekh., khim. i geol.nauk no.3:131 '64
(MIRA 18:1)

1. Otdel goofiziki i seyamologli AN Turkmenskoy SSR, Astrofizicheskaya maboratoriya.



PUSHKEVICH, G.F.

Dzhelepov, B. S., Kraft, O. Ye.,

48-22-2-14/17

AUTHORS:

Preobrazhenskiy, B. K., Yushkevich, G. F.

TITLE:

Positron Spectra of the Dysprosium Fraction (Spektry pozitro-

nov disproziyevoy fraktsii)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958

Vol. 22, Nr 2, pp. 208-210 (ÚSSR)

ABSTRACT:

The mentioned dysprosium fraction was here obtained by separation from the tantalum target, which was irradiated by protons with an energy of 660 MeV. In this connection it is stated, that no data can be found in publications on the dysprosium isotope with a half life of 20 hours. Dy157 was ascribed to the eighth period (reference 2). From reference 3 it can be seen, that another Dy155 exists with a half life of 10 hours. In order to determine which isotopes are contained in the here obtained preparation, its conversion spectrum was investigated, which resulted in the determination of 11 peaks of conversion electrons. 6 of these possessed the same half life of 11 ± 2 hours. The energy of the electrons amounted to  $180 \pm 10$ ,  $270 \pm 15$ ,  $320 \pm 20$ ,  $400 \pm 25$ ,  $465 \pm 30$  and  $610 \pm 30$ 

Card 1/3

keV. It was assumed, that these are K-electrons, possessing

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Positron Spectra of the Dysprosium Fraction

48-22-2-14/17

the transition energies 230, 320, 370, 450, 515, and 660 keV. Such transitions "apparently" correspond to Dy 155 or Dy 157. The ratio of the number of pesitrons and of the number of conversion electron transitions with hv = 515 keV was established to be 37,5. A half life of 4,7 days and energies of 98, 112, 132 and 162 keV here corresponded to the four groups of conversion electrons. A comparison with the conversion spectrum of the dysprosium fraction as given in reference 3 permits to assume, that in this case it is concerned with the lines k-148, K-162, K-182 and K-210, which occur in the decay of Tb155 (the first three of them), which also pertains to the decay of Dy155 and Dy157. Concerning the 20 hours decay period which was found in this investigation in the dysprosium fraction, it is stated here, that its origin remained unclear. Concerning this it is remarked, that in the measurements of the terbium fraction on a ketron (reference 4) positrons from a decay with a half life of 18 hours and a limit energy of ~2800 keV were observed, which is near to the found half life of ~20 hours. For this reason it is assumed, that the respective positron spectrum refers to the isotope Tb with a half life of 18 hours. There are 4 figures and 4 references, 3 of which are Soviet.

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1. Dysprosium fraction-Positron spectra 2. Proton irradiation-Application

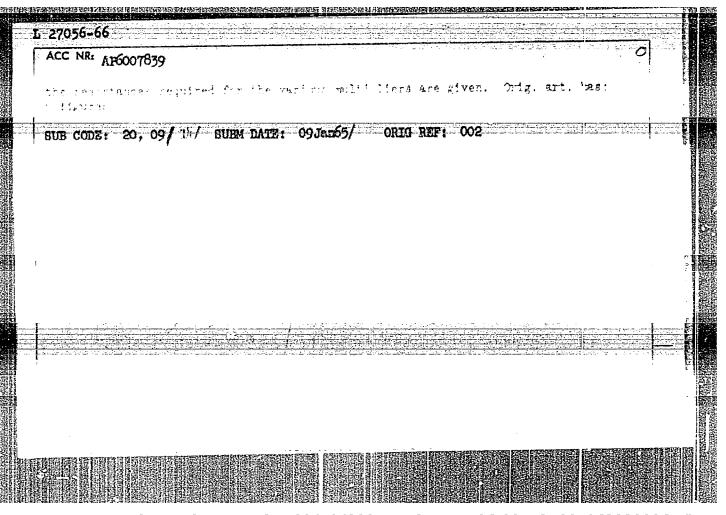
Card 3/3

YUSHKEVICH, G.F., otv. sa vypusk; GRIGOR'YEV, Ye.P., red.; BREDIKHIN, A.M., kontrol'nyy red.

[Instruments based on the application of radioisotopes and radiation; catalog] Pribory, osnovannye na primenenii radio-aktivnykh izotopov i izluchenii; katalog. Moskva. 1959.
31 p. (MIRA 12:11)

1. Mezhdunarodnaya peredvizhnaya vystavka priborov i sredstv izmereniya, primenyayemykh pri issledovaniyakh v sel'skokhozyaystvennykh nauchnykh uchrezhdeniyakh. (Radioisotopes--Industrial applications) (Instruments)

### Market Section I william a section of PROPERTY OF THE PROPERTY OF TH L 27050-66 ENT(u) ACT HE ATERNOOPS SOUTH E CODE: UR/0120/66/000/001/0138/0199 A THUE Parayevskaya, N. V.; Sesnin, L. D., Jushkevich, G. F. OrG: Pelemissian State University (Belerussky gosudarstvennyy universitet) Extimal spectrometric regime of a photomultiplier with venetian-blind dynode Bystem: SCURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 198-199 POPTO TARRE spectrometry, physomultiplier take. Gamma spectrometer, scintillation Speciromater, voltage divide-The authors investigated the specti metric properties and operating conditting of the postsmultipliers FEF-15. - A. . . . and -56, with an aim at checking whether the rated supply voltages in the printed specifications for these multipliers are liment. To this end, they measured the impendence of the amplitude of the mutmit success. And the wmn.it.de resolution of a scintillation pickup on the voltage Serwie in a convert respondent without in the ifferent total photomultiplier voltorystals used in the tests measured and the FM-1 and -14, and the - one for FM-52 and -56. The 7-ray source The solution sation when so small , it Al-DX and AMA-45 fulse-height assaurance of the second of twee that the outliness raised voltages do not agree with The the second of the special reservoir second the same of a voltage divider to That is the result of the restriction of the state recommended, and the values of UDC: 621.363.292



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963230006-1"

DS/GG/WH EMP(0)/EMT(m) UR/0368/66/005/004/0486/0488 L 08077-67 SOURCE CODE: ACC NRI AP6034215 AUTHOR: Yushkavich, G. F.; Soshina, N. V. ORG: none TITLE: Investigation of the effect of neutron and gamma irradiation on the optical density of glasses used in some photomultipliers SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 4, 1966, 486-488 TOPIC TAGS: photomultiplier, gamma irradiation, neutron irradiation, irradiation effect ABSTRACT: An investigation was made of the effect of gamma and neutron irradiation on the optical density of glasses used for FEU-13, FEU-14, FEU-52, and FEU-56 photomultipliers. Photocathode glasses 40 and 70 mm in diameter and 1 and 2 mm thick, respectively, were used as specimens. Gamma irradiation was conducted in cebalt installations with dose rates of 100 and 1 r/sec. Neutron irradiation was conducted in the vertical channel of an IRT-2000 reactor with integral fluxes of 1010 1012, 1014, and 1016 neutrons/cm<sup>2</sup>. A gamma-irradiation dose of the order of  $5 \times 10^4$  r at an average quantum energy of 1.25 MeV increased the optical density of glasses approximately 1.05 times. Gamma doses of 107 r and higher brought about greater changes. Neutron irradiation also darkened the glasses, although the darkening was uneven. The darkening can be linked to the appearance of F-color 666,266,5